DOE High Performance Buildings Database: Available Input Fields

To view published projects and submit a project, go to:
http://www.highperformancebuildings.gov/case_studies/

Table of Contents

This document shows the fields available for describing a project in the U.S. Department of Energy's High Performance Buildings Database. You can use this document to assess what information will be needed to document your project.

Information that must be provided for a project to be considered for publication by U.S. DOE is indicated with an asterisk after the field name. While most fields are optional, the more information you provide, the better your project will look when published.

There is no need to collect all the information in advance because after you begin entering a project online you can save it and return to it as many times as you like to complete the data entry.

Additional instructions and guidance for each field are provided on the online help screens listed for each section. Text fields are not limited in length--feel free to provide as much detail as you can. Formatting (bold, italics) will not be retained unless you use html tags to encode it. Leave a blank line between paragraphs.

Authorization to release information from online form:
By logging in to enter data or images into this database you agree that any information you provide may be distributed freely to any users of this database or other information resources created from this database, and that you have the authority to release this material. You also certify that the information you provide is, to the best of your knowledge, accurate.

Important Note:

This form was updated on: March 9, 2005

If more than six months haved passed, please check the online submission page for an updated version.

General Information

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?GeneralScreen

Identifying information

Short project name*: _____

Full project name: _____

Default units of measurement*: _____ [English; metric]

Project owner*: _____

Owner type: _____

[Corporation, for-profit; Corporation, nonprofit; Individual(s); Federal government; State or local government]

Project size*: _____ [ft2; m2]

Number of stories _____

Project location

Address: _____

_____

City*: _____ State*: _____

Zip; postal code: _____ Country*: _____

Latitude _____ Degrees _____ Minutes [north/south]

Longitude _____ Degrees _____ Minutes [east/west]

Elevation _____ [ft./meters]

Site context/setting

_____ [urban/suburban/rural]

Occupancy

Primary occupant type: _____

[Corporation, for-profit; Corporation, nonprofit; Individual(s); Federal government; State government; Local governr

Owner occupied? _____ [yes; no]

Typical number of permanent occupants: _____ people

Average hours per permanent occupant _____ hours per week

Typical number of visitors per week _____ people

Average hours per visitor _____ hours per week

Details about occupancy:

Scope

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ScopeScreen

Number of buildings*

Single building [ ]

Multiple buildings [ ] How many? _____

Size of typical building(s)

Building 1 _____ [ft2; m2]

Building 2 _____ [ft2; m2]

Building 3 _____ [ft2; m2]

Building 4 _____ [ft2; m2]

Building 5 _____ [ft2; m2]

Part of a building [ ] Approximate portion of building included in project? _____ %

Related projects

[Associate this project] with an "umbrella" project

[Create a link] to additional projects within this "umbrella" project

History and completion date

Percent new* _____ %

Percent renovation* _____ % Historic? _____ [yes; no]

Year of construction: _____

Year of last major renovation: _____

Date of completion /occupancy _____ (m/yyyy)

Completion date notes:

Building Types

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?BuildingTypes

Building types*

Select all that apply

[ ] Commercial office
[ ] Industrial (manufacturing, warehouse, recycling center, public works)
[ ] Laboratory
[ ] Restaurant
[ ] Retail (store, supermarket, art gallery)
[ ] Financial & communications (bank, post office, data center)

[ ] Single-family residential
[ ] Multi-unit residential (apartments, townhouses, dormitories, barracks)
[ ] Special needs housing (assisted living, long-term care)
[ ] Hotel/resort

[ ] Daycare
[ ] K-12 education
[ ] Higher education
[ ] Recreation
[ ] Library

[ ] Health care
[ ] Animal care (veterinary, kennel)
[ ] Interpretive Center (museum, nature center, aquarium, zoo)
[ ] Assembly (conference center, community center, convention center, place of worship, perf
[ ] Stadia & arenas
[ ] Public order & safety (police station, fire station, correctional facility, courthouse)
[ ] Transportation (airport, train station, bus station)

[ ] Park (greenway, recreation space, wildlife)
[ ] Campus (corporate campus, school)
[ ] Community (neighborhood, residential development)
[ ] Military base
[ ] Regional plan

[ ] Other _____

Program spaces

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ProgramSpaces

Select all the apply, and list approximate % of total project.

Indoor spaces

Animal care [ ] %
Cafeteria [ ] %
Child care [ ] %
Circulation [ ] %
Classroom [ ] %
Conference [ ] %
Data processing [ ] %
Detention [ ] %
Dining [ ] %
Elder care [ ] %
Electrical systems [ ] %
Greenhouse [ ] %
Gymnasium [ ] %
Laboratory [ ] %
Living quarters [ ] %
Lobby/reception [ ] %
Manufacturing [ ] %
Mechanical systems [ ] %
Medical treatment [ ] %
Office [ ] %
Public assembly [ ] %
Restrooms [ ] %
Retail food [ ] %
Retail general [ ] %
Structured parking [ ] %
Warehouse [ ] %
Other [ ] %

Outdoor spaces

Athletic field [ ] %
Drives/roadway [ ] %
Garden—decorative [ ] %
Garden—productive [ ] %
Golf course [ ] %
nterpretive landscape [ ] %
Parking [ ] %
Pedestrian/non-motorized vehicle path [ ] %
Playground [ ] %
Wildlife habitat [ ] %
Patio/hardscape [ ] %
Shade structures/outdoor rooms [ ] %
Restored landscape [ ] %
Other [ ] %

Descriptions

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?DescriptionScreen

Enter a short description of this project (fewer than 100 words).*

Enter a description of the significant environmental aspects of this project (fewer than 200 words).*

Keywords

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?KeywordsScreen

Process

- [ ] Integrated te
- [ ] Training
- [ ] Simulation
- [ ] Contracting
- [ ] Performance measurement and verification
- [ ] Design charrette
- [ ] Green framework
- [ ] Green specifications
- [ ] Commissioning
- [ ] Operations and maintenance

Community

- [ ] Transportation benefits
- [ ] Open space preservation
- [ ] Brownfield redevelopment

Site & Water

- [ ] Wildlife habi
- [ ] Indegenous vegetation
- [ ] Water harvesting
- [ ] Efficient irrigation
- [ ] Graywater
- [ ] Wetlands
- [ ] Stormwater management
- [ ] Efficient fixtures and appliances
- [ ] Drought-tolerant landscaping
- [ ] Wastewater treatment

Energy

- [ ] Massing and orientation
- [ ] Glazing
- [ ] Passive solar
- [ ] Lighting control and daylight harvesting
- [ ] On-site renewable electricity
- [ ] Insulation levels
- [ ] Airtightness
- [ ] HVAC
- [ ] Efficient lighting
- [ ] Cogeneration

Materials

- [ ] Adaptable design
- [ ] Benign materials
- [ ] Recycled materials
- [ ] Certified wood
- [ ] Occupant recycling
- [ ] Durability
- [ ] Salvaged materials
- [ ] Local materials
- [ ] C&D waste management

Indoor Environment

- [ ] Connection t
- [ ] Natural ventilation
- [ ] Moisture control
- [ ] Noise control
- [ ] Indoor air quality monitoring
- [ ] Daylighting
- [ ] Ventilation effectiveness
- [ ] Thermal comfort
- [ ] Low-emitting materials

Project Team

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ProjectTeam

(Add contact information for any of the roles below using the "Contacts" sheet.)

Design team*

Check all roles represented on the design team and list individual and/or firm if possible.

[ ]	Architect	_____
[ ]	Civil engineer	_____
[ ]	Commissioning agent	_____
[ ]	Contractor	_____
[ ]	Electrical engineer	_____
[ ]	Environmental building consultant	_____
[ ]	Energy consultant	_____
[ ]	Facility manager	_____
[ ]	IEQ consultant	_____
[ ]	Interior designer	_____
[ ]	Landscape architect	_____
[ ]	Lighting designer	_____
[ ]	Mechanical engineer	_____
[ ]	Owner/developer	_____
[ ]	Plumbing engineer	_____
[ ]	Structural engineer	_____
[ ]	Waste management consultant	_____
[ ]	Other	_____

Additional contacts

Primary information contact:	_____
Contact for visuals:	_____
Database administration contact:	_____
Tour contact:	_____
Other contacts:	_____

* Required field

Contacts

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ContactInfo

Add a new contact (replicate this page to list additional contacts)

First name*: _____ Middle name: _____

Last name*: _____ Salutation: _____ Suffix: _____

Organization*: _____ (either first & last name OR organization are required)

Organization acronym: _____

Address _____

City*: _____ State*: _____

Zip; postal code: _____ Country: _____

Phone: _____ Ext.: _____ Fax: _____

Mobile phone/pager: _____

Email: _____

Web site: _____

Information specific to this project

Tour contact? _____ (yes; no)

Primary contact? _____ (yes; no)

Publish full contact info?* _____ (yes; no)

Design team role: _____ If other, specify: _____

(Architect; Civil engineer; Commissioning agent; Contractor; Electrical engineer; Environmental building consultant; Energy consultant; IEQ consultant; Facility manager; Interior designer; Landscape architect; Lighting designer; Mechanical engineer; Owner/developer; Plumbing engineer; Structural engineer; Waste management consultant; Other)

Additional role(s) and/or role title: _____

Additional information for internal use only

Area of expertise: _____

(process; land-use; site & water; energy; indoor environment; materials; visuals; rating systems; costs)

Database contact? _____ (yes; no)

Visuals contact? _____ (yes; no)

Notes

Finances

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?FinancesScreen

Description of finances

Describe how the project was financed, and provide details on innovative or nonstandard financing approaches that were instrumental for this project.

Financing mechanisms

Check all that apply.

Credit enhandment

- [ ] Loan guarantees-public
- [ ] Loan guarantees-private

Equity

- [ ] Cash
- [ ] Government appropriation
- [ ] Historic tax credits
- [ ] Affordable housing tax credits
- [ ] Green building tax credits
- [ ] Other tax credits

Grant

- [ ] Public agency
- [ ] Private (foundation)

Loans

- [ ] Public institution
- [ ] Private (bank, insurance)
- [ ] Bond

Procurement process

- [ ] Design-bid-build
- [ ] Design-build
- [ ] Performance based contracts

Cost Data

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?CostScreen

Project costs

Currency units _____ (required)
Conversion factor to U.S. dollars
(dollars/other currency) _____ (required)
Total project cost (land excluded) _____
Property acquisition cost _____

Cost breakdown per unit area

Choose a unit of area for hard and soft costs
(Hard and soft costs are per ft2 or per m2) _____ [ft2; m2]

Soft costs (per unit area of building):
Professional fee _____
Management fee _____
Financing _____
Total soft cost _____
Hard costs (per unit area of building):
Site work _____
Construction _____
Tenant improvements _____
Total hard cost _____

Sum of total soft and total hard costs _____

Cost and payback description

Describe unusual project cost issues and provide estimated payback of any investment in green measures.

Land Use & Community

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?LandUseScreen

Land use description

Describe how land-use and community- or masterplan-scale issues are addressed in this project.

Featured Land Use & Community Strategies

To view strategy options, view the HPB entry forms online.

Strategy 1 _____
Strategy 2 _____
Strategy 3 _____
Strategy 4 _____
Strategy 5 _____
Strategy 6 _____
Strategy 7 _____
Strategy 8 _____
Strategy 9 _____
Strategy 10 _____

Site & Water

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?SiteScreen

Site size

Lot size _____ [ft2; m2; acres; ha]

Building footprint _____ (ft2/m2)

Site conditions*

Check as many as apply.

[ ] Pristine land (greenfield)
[ ] Previously undeveloped land
[ ] Previously developed land
[ ] Brownfield site
[ ] Wetlands
[ ] Lake/pond
[ ] Running water
[ ] Sensitive habitat
[ ] Agricultural land
[ ] Preexisting structure(s)

Site description

Describe environmental aspects of the project's site selection, land development, and landscaping.

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?SiteWater

Water conservation and use

Describe strategies and technologies that contribute to the conservation of fresh water resources.

Indoor potable water use _____ [gallons/liters] per year

Outdoor potable water use _____ [gallons/liters] per year

Total potable water use [gallons/liters] per year

Featured Site & Water Strategies

To view strategy options, view the HPB entry forms online.

Strategy 1 _____

Strategy 2 _____

Strategy 3 _____

Strategy 4 _____

Strategy 5 _____

Strategy 6 _____

Strategy 7 _____

Strategy 8 _____

Strategy 9 _____

Strategy 10 _____

Energy

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?EnergyScreen

Energy use description*

Describe how energy-related issues are addressed in this project. Note that in order for your project description to be displayed on the Department of Energy's Web site, you must also provide energy data, including, at a minimum, total energy use and data sources and reliability.

Energy security

Describe on-site electricity generation capabilities and other project features that might provide emergency power and contribute to energy security within the project and throughout the region.

Data sets (mulitple data sets can be entered)

Type: _____ [Actual--utility bills;
Actual--end-use metering;
Actual & simulation hybrid;
Simulation;
Simulation--90.1 regulated loads only;
Base case: ASHRAE 90.1;
Base case: California Title 24;
Base case: 10 CFR 434;
Base case: 90.1 regulated loads only;
Base case: CBECS Database;
Base case: other (specify);
Other: specify custom label]

Name: _____
Year: _____
Default: _____ [yes; no]
Publish: _____ [yes; no]

Summary energy data

Total annual building energy consumption

Fuel	Amount	Units	Cost($)
Total Purchased	_____	[kWh; MJ; MMBtu]	
Total On-Site Renewal		[kWh; MJ; MMBtu]	

Building energy load

Load	Amount	Units
Cooling load	_____	[ton; kW]
Heating load	_____	[kBtu/hr; kW]
Connected lighting		kW

Data sources and reliability*

If based on simulation, list software and version.

If based on utility bills, list company(s) and dates of bills.

* Required field

Comments on data source and reliability:

If monthly energy data is available, please e-mail it to hpbdata@buildinggreen.com as a spreadsheet or text file.

Featured Energy Strategies

To view strategy options, view the HPB entry forms online.

Strategy 1 _____
Strategy 2 _____
Strategy 3 _____
Strategy 4 _____
Strategy 5 _____
Strategy 6 _____
Strategy 7 _____
Strategy 8 _____
Strategy 9 _____
Strategy 10 _____
Strategy 11 _____
Strategy 12 _____
Strategy 13 _____
Strategy 14 _____
Strategy 15 _____
Strategy 16 _____
Strategy 17 _____
Strategy 18 _____
Strategy 19 _____
Strategy 20 _____

Energy Worksheet--For Detailed Energy Data

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?EnergyScreen

Data sets (mulitple data sets can be entered)

Type: _____ [Actual--utility bills;
Actual--end-use metering;
Actual & simulation hybrid;
Simulation;
Simulation--90.1 regulated loads only;
Base case: ASHRAE 90.1;
Base case: California Title 24;
Base case: 10 CFR 434;
Base case: 90.1 regulated loads only;
Base case: CBECS Database;
Base case: other (specify);
Other: specify custom label]

Name: _____
Year: _____
Default: _____ [yes; no]
Publish: _____ [yes; no]

Building area

	Area	Units
Gross floor area	[Value from General screen]	
Heated floor area	_____	[ft2; m2]
Cooled floor area	_____	[ft2; m2]

Annual building energy consumption

Purchased energy

Fuel	Amount	Units	Cost ($)
Electricity	_____	kWh	_____
Natural gas	_____	[kWh; MMBtu; MJ]	_____
Other	_____	[kWh; MMBtu; MJ]	_____
Other	_____	[kWh; MMBtu; MJ]	_____

Annual on-site renewable generation

Source	Amount	Units
PV	_____	[kWh; MMBtu; MJ]
Solar thermal	_____	[kWh; MMBtu; MJ]
Wind	_____	[kWh; MMBtu; MJ]
Other	_____	[kWh; MMBtu; MJ]

Annual end use breakdown

End use	Amount	Units	
Heating		[kWh; MMBtu; MJ]	
Cooling		[kWh; MMBtu; MJ]	
Lighting		[kWh; MMBtu; MJ]	
Fans & pumps		[kWh; MMBtu; MJ]	
Plug loads & equipment		[kWh; MMBtu; MJ]	
Vertical transport		[kWh; MMBtu; MJ]	
Domestic hot water		[kWh; MMBtu; MJ]	
Other end use		[kWh; MMBtu; MJ]	(specify)

Purchased electricity fuel mix

Fuel	% of total	
Coal		
Fuel oil		
Natural gas		
Nuclear		
Hydroelectric		
Other		(specify)

Peak power

Fuel	Amount	Units
Electricity (summer)		kW
Electricity (winter)		kW
Natural gas		[kBtu/hr; kW]

Building energy load

Load	Amount	Units
Cooling load		[ton; kW]
Heating load		[kBtu/hr; kW]
Connected lighting		kW

Data sources and reliability*

If based on simulation, list software and version.

If based on utility bills, list company(s) and dates of bills.

Comments on data source and reliability:

If monthly energy data is available, please e-mail it to hpbdata@buildinggreen.com as a spreadsheet or text file.

Materials & Resources

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?MaterialsScreen

Materials & resources descriptions

Describe how issues relating to material use, resource efficiency, and product selection are addressed in this project.

Provide any available data on diversion of construction and demolition waste from disposal. Include a description of how this diversion was accomplished.

Green materials (products)

List notable green products here, with manufacturer and product name.

Design for adaptability to future uses

Describe any aspects of the design or construction of the project that enhance its potential for reuse in the future.

Featured Materials & Resources Strategies

For strategy options, view the HPB entry forms online.

Strategy 1 _____
Strategy 2 _____
Strategy 3 _____
Strategy 4 _____
Strategy 5 _____
Strategy 6 _____
Strategy 7 _____
Strategy 8 _____
Strategy 9 _____
Strategy 10 _____

Indoor Environment

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?IndoorEnvironment

Indoor environment approach

Describe how indoor-environment-related issues are addressed in this project.

Featured Indoor Environment Strategies

For strategy options, view the HPB entry forms online.

Strategy 1 _____

Strategy 2 _____

Strategy 3 _____

Strategy 4 _____

Strategy 5 _____

Strategy 6 _____

Strategy 7 _____

Strategy 8 _____

Strategy 9 _____

Strategy 10 _____

Results

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ResultsScreen

Lessons learned

Discuss goals that were met and goals that were not achieved, and the reasons for these outcomes.

Ratings

List any ratings of this project. List points or credits achieved on a separate sheet.

Rating program/version _____
Year _____
Level achieved _____

Rating program/version _____
Year _____
Level achieved _____

Awards

List any awards associated with this project.

Award program/version _____
Year _____
Category/title _____

Award program/version _____
Year _____
Category/title _____

Award program/version _____
Year _____
Category/title _____

Visuals (replicate this page to include additional visuals)

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?VisualsScreen

Permission

I provide unrestricted use of this digital image, in print and electronic formats, with appropriate credit as specified on the following screen. I represent and warrant that I have the full right and authority to grant the rights herein granted, that all the necessary releases have been procured, and that no one else's permission is required.

I agree _____ Upload without permission _____

Project file information

Title _____

NREL Pix number _____

Display section _____ [visuals only; overview; process; land use; site/water; energy; materials; indoor environment]

Permission* _____ [yes; no]

Permission comments

Caption*

Source

Credits

Notes

* Required field

Learn More

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?LearnScreen

Visiting options

Visiting the project

Is it possible to visit this project? [yes; no]

If so, please provide as many details as possible (street address, directions, times).

Guided tours

Are guided tours available? [yes; no]

If so, please provide relevant details.

Tour contact information:

References

(Use separate form to describe any references for additional information on this project.)

Data reliability

Comments from data provider, editor, and/or reviewer on the quality and reliability of any information provided on this form. Please include a date with any notes. Not for publication.

The information provided here is valid as of: _____

References

Online help: http://www.BuildingGreen.com/cgi-bin/hpbwiki.pl?ReferenceInfo

Add a new reference (replicate this page to list additional references)

Title* _____ (required)

Subtitle _____

Author 1 first name _____

Author 1 last name _____

Author 2 first name _____

Author 2 last name _____

Author 3 first name _____

Author 3 last name _____

_____ [author; editor]

ISBN _____

Reference type* _____

[magazine; book; CD-ROM; Web site; other--specified]

Please indicate below the book, magazine, or Web site (if any) in which this reference appears.

Publication _____

Publisher _____

Publication Date _____

Volume _____

Issue _____

Page _____

URL _____ File size _____ [KB/MB]

Description